

ANNULAR RING ANTENNA**Abstract of the Disclosure**

[0026] The antenna includes a substrate, such as a dielectric material, and an electrically conductive circular ring on the substrate and having an outer diameter and an inner diameter concentrically arranged. The outer diameter is less than $1/10$ an operating wavelength, and preferably about $1/20^{\text{th}}$, so that the antenna is electrically small relative to the wavelength. The inner diameter is in a range of $\pi/6$ to $\pi/2$ times the outer diameter, and preferably is $\pi/4$ times the outer diameter to enhance the gain relative to its area.